

Packaging the Results from the LCLUC Program

Approach:

Generating Scientific Results - *Our Primary Objective*

Making available our Data and Products - *Our Responsibility*

Targeting the Audiences

- Crafting the message(s)

- Delivery / access and timing

- Identifying intermediaries

Land-Cover and Land-Use Change: Selected Accomplishments

- Deforestation rates for Brazilian Amazon quantified for late 1970's-1980's
- Estimates of regrowth in Amazon as high as 30% of the area
- Satellite observations of distribution and frequency of fires in southern African savannas
- Increases in boreal fire frequencies could potentially contribute another 0.3-0.8 GtC/yr to the atmosphere as a consequence of increased greenhouse warming

Future Science Directions for LCLUC

Previous Thinking

- Causes and Process of Change
- Impacts of Change
- Predictive capability
- Assessments
- LCLUC and Sustainability
- LCLUC and Biodiversity

Possible Areas for future LCLUC Activity

- Extending existing studies to address
 - synthesis across existing case studies - concepts / rules / theory development and testing
 - results packaging
 - management aspects / stakeholder concerns
- Additional Regional Case Studies - causes and impacts (priority regions)
- Impacts of Land Cover and Land use Change on
 - carbon / biogeochemistry
 - biodiversity
- LCLUC and Water
- Climate as a driver of Land Use Change - and socioeconomic impacts
- Regional Assessments - integrated modeling
- Developing a Predictive Capability of LCLUC
- New Techniques and Data sets - new systems - science
- Critical Thresholds for Land Use Change
- LC Product Validation
- LCLUC and Social Welfare ??